

# P1XXX

## MAZDA

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### OBD2 CODE LIST

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Codes	Definition
P1001	Data link connector (DLC) – self-test terminated
P1100	Mass air flow (MAF) sensor – intermittent sensing
P1101	Mass air flow (MAF) sensor – out of self-test range
P1102	Mass air flow (MAF) sensor – incomparable with TP sensor signal – signal low
P1103	Mass air flow (MAF) sensor – incomparable with RPM signal – signal high
P1110	Intake air temperature (IAT) sensor (engine)- short/open circuit
P1112	Intake air temperature (IAT) sensor – intermittent sensing
P1113	Intake air temperature (IAT) sensor (supercharger) – short/open circuit
P1114	Intake air temperature (IAT) sensor – voltage low
P1115	Intake air temperature (IAT) sensor- voltage high
P1116	Engine coolant temperature (ECT) sensor- out of self-test range
P1117	Engine coolant temperature (ECT) sensor – intermittent sensing
P1120	Throttle position (TP) sensor – out of range “low”
P1121	Throttle position (TP) sensor – incomparable with MAF sensor signal
P1122	Throttle position (TP) sensor – stuck closed
P1123	Throttle position (TP) sensor – stuck open
P1124	Throttle position (TP) sensor – out of self-test range
P1125	Throttle position (TP) sensor – intermittent circuit fault
P1126	Throttle position (TP) sensor – circuit fault
P1127	Heated oxygen sensor (H02S) – RH or rear bank -front (6 cyl) – heater circuit malfunction
P1128	Heated oxygen sensor (H02S) -front – bank 1/bank 2 sensors transposed

P1129	Heated oxygen sensor (H02S)- rear- bank 1/bank 2 sensors transposed
P1130	Heated oxygen sensor (H02S) 1, bank 1 – adaptive limit achieved
P1131	Heated oxygen sensor (H02S) 1, bank 1 – lean mixture indicated
P1132	Heated oxygen sensor (H02S) 1, bank 1 – rich mixture indicated
P1133	Fuel trim (FT) lean mixture – bank 1
P1134	Fuel trim (FT) rich mixture – bank 1
P1135	Heated oxygen sensor (H02S) 1, bank 1, heater control – circuit low
P1136	Heated oxygen sensor (H02S) 1, bank 1, heater control – circuit high
P1137	Heated oxygen sensor (H02S)- rear- adaptive limit achieved
P1138	Heated oxygen sensor (H02S) – rear- adaptive limit achieved
P1141	Heated oxygen sensor (H02S) 2, bank 1, heater control – circuit low
P1142	Heated oxygen sensor (H02S) 2, bank 1, heater control – circuit high
P1143	Heated oxygen sensor (H02S) 2, bank 1 – lean mixture indicated
P1144	Heated oxygen sensor (H02S) 2, bank 1 – rich mixture indicated
P1150	Heated oxygen sensor (H02S) – LH or front bank -front (6 cyl) – adaptive limit achieved
P1151	Heated oxygen sensor (H02S) – LH or front bank -front (6 cyl) – lean mixture indicated
P1152	Heated oxygen sensor (H02S) – LH or front bank – front (6 cyl) – rich mixture indicated
P1153	Fuel trim (FT) lean mixture – bank 2

P1154	Fuel trim (FT) rich mixture – bank 2
P1157	Heated oxygen sensor (H02S) 2, bank 2 – lean mixture indicated
P1158	Heated oxygen sensor (H02S) 2, bank 2 – rich mixture indicated
P115E	Throttle body – restricted flow
P1168	Fuel rail pressure sensor- signal low
P1169	Heated oxygen sensor (H02S) (except Tribute -+2005)- rear (6 cyl) – voltage high
P1170	Heated oxygen sensor (H02S) LH or front bank – front (6 cyl) – voltage high
P1173	Heated oxygen sensor (H02S) RH or rear bank – front (6 cyl) – voltage high
P1195	Exhaust gas recirculation (EGR) system sensor – malfunction
P1196	Starter signal – circuit malfunction
P1224	Throttle Position Sensor 'B' Out of Self-Test Range
P1233	Fuel pump (FP) control module – control module disabled or off line
P1234	Fuel Pump Driver Module Disabled Or Off Line
P1235	Fuel pump (FP) control – out of range
P1236	Fuel Pump Driver Module Disabled or Off Line
P1237	Fuel pump (FP) – secondary circuit malfunction
P1238	Fuel Pump Driver Module Disabled or Off Line
P1239	Speed Fuel Pump Positive Feed
P1244	Generator/regulator system – load input out of range
P1245	Generator/regulator system – load input out of range
P1246	Generator/regulator system – load input out of range
P1250	Fuel pressure (FP) control solenoid valve 1 – malfunction
P1251	Idle speed control (ISC) system – rpm lower than expected
P1252	Fuel pressure (FP) control solenoid valve 2 – malfunction

P1260	Theft detected – engine immobilized
P1261	Cylinder #1 High To Low Side Short
P1262	Cylinder #2 High To Low Side Short
P1263	Cylinder #3 High To Low Side Short
P1264	Cylinder #4 High To Low Side Short
P1265	Cylinder #5 High To Low Side Short
P1266	Cylinder #6 High To Low Side Short
P1270	Maximum engine RPM or vehicle speed obtained
P1271	Cylinder #1 High To Low Side Open
P1272	Cylinder #2 High To Low Side Open
P1273	Cylinder #3 High To Low Side Open
P1274	Cylinder #4 High To Low Side Open
P1275	Cylinder #5 High To Low Side Open
P1276	Cylinder #6 High To Low Side Open
P1285	Cylinder head temperature (CHT) sensor- overheating detected
P1288	Cylinder head temperature (CHT) sensor- out of self-test range
P1289	Cylinder head temperature (CHT) sensor – circuit malfunction
P1290	Cylinder head temperature (CHT) sensor – circuit malfunction
P1299	Cylinder head temperature (CHT) sensor- fail safe cooling activated
P1308	A/C Clutch Circuit Fault
P1309	Misfire detection monitor – not enabled
P1336	Crankshaft position (CKP) sensor/camshaft position (CMP) sensor – circuit range/ performance
P1340	Camshaft Position Sensor 'B' Circuit
P1341	Camshaft Position Sensor 'B' Circuit Range/Performance
P1342	PCM Malfunction

P1345	Camshaft position (CMP) sensor – signal malfunction
P1351	Engine control module (ECM) – loss of ignition diagnostic monitor
P1352	Ignition coil A – primary circuit malfunction
P1353	Ignition coil 8 – primary circuit malfunction
P1354	Ignition coil C – primary circuit malfunction
P1355	Ignition coil D – primary circuit malfunction
P1358	Engine control module (ECM) -loss of ignition diagnostic monitor
P1359	Engine control module (ECM) – loss of ignition output signal
P1360	Ignition coil A – secondary circuit malfunction
P1361	Ignition coil 8 – secondary circuit malfunction
P1362	Ignition coil C – secondary circuit malfunction
P1363	Ignition coil D – secondary circuit malfunction
P1364	Ignition coil – primary circuit malfunction
P1365	Ignition coil – secondary circuit malfunction
P1380	Camshaft Position Actuator Circuit Bank 1
P1381	Camshaft Position Timing Over Advanced Bank 1
P1382	Camshaft position (CMP) sensor – malfunction
P1383	Camshaft Position Timing Over Retarded Bank 1
P1385	Camshaft Position Actuator Circuit Bank 2
P1386	Camshaft Position Timing Over Advanced Bank 2
P1387	Camshaft position (CMP) sensor – malfunction
P1388	Camshaft Position Timing Over Retarded Bank 2
P1390	Octane adjust – out of self-test range
P1397	System voltage – out of self-test range
P1400	Differential pressure feedback sensor – low voltage detected
P1401	Differential pressure feedback sensor – high voltage detected

P1402	Exhaust.gas recirculation (EGR) valve position sensor – voltage low/high
P1403	Differential pressure feedback sensor – hoses reversed
P1405	Differential pressure feedback sensor – upstream hose off or plugged
P1406	Differential pressure feedback sensor – downstream hose off or plugged
P1407	Exhaust gas recirculation (EGR) system – no flow detected
P1408	Exhaust gas recirculation (EGR) system -flow out of self-test range
P1409	Electronic vacuum regulator control – circuit malfunction
P1410	Exhaust gas recirculation (EGR) boost sensor/solenoid – stuck
P1412	Exhaust gas recirculation (EGR) solenoid – malfunction
P1432	Engine coolant thermostat – circuit malfunction
P1442	Evaporative emission (EVAP) system – system leak detected
P1443	Evaporative emission (EVAP) canister purge control system
P1444	Evaporative emission (EVAP) canister purge flow sensor – low input
P1445	Evaporative emission (EVAP) canister purge flow sensor – high input
P1446	Evaporative emission (EVAP) system
P1449	Evaporative emission (EVAP) canister purge system – tank pressure problem
P1450	Evaporative emission (EVAP) canister purge system – leak
P1451	Evaporative emission (EVAP) canister vent valve – circuit malfunction
P1452	Evaporative emission (EVAP) system – fuel tank vacuum test failed
P1455	Fuel tank level sensor- short/open circuit

P1456	Evaporative emission (EVAP) system
P1457	Evaporative emission (EVAP) system
P145E	Positive crankcase ventilation (PCV) heater – circuit malfunction
P1460	Wide open throttle (WOT) air conditioning cut off- circuit malfunction
P1461	A/C refrigerant pressure sensor – high voltage
P1462	A/C refrigerant pressure sensor – low voltage
P1463	A/C refrigerant pressure sensor – insufficient pressure change
P1464	A/C control signal – voltage high during self-test
P1465	A/C control signal – malfunction
P1469	Frequent A/C compressor clutch cycling
P1473	Cooling fan – circuit malfunction
P1474	Cooling fan “low” (Tribute)- circuit malfunction
P1475	Cooling fan – circuit malfunction
P1476	Cooling fan – circuit malfunction
P1477	Cooling fan “medium” (Tribute)- circuit malfunction
P1479	Cooling fan “high” (Tribute)- circuit malfunction
P1480	Cooling fan – circuit malfunction
P1481	Cooling fan – circuit malfunction
P1485	Exhaust gas recirculation (EGR) valve – malfunction
P1486	Exhaust gas recirculation (EGR) valve – malfunction
P1487	Exhaust gas recirculation (EGR) valve – malfunction
P1496	Exhaust gas recirculation (EGR) valve coil 1 – short/open circuit
P1497	Exhaust gas recirculation (EGR) valve coil 2 – short/open circuit
P1498	Exhaust gas recirculation (EGR) valve coil 3 – short/open circuit



P1499	Exhaust gas recirculation (EGR) valve coil 4 – short/open circuit
P1500	Vehicle speed sensor (VSS) -intermittent fault
P1501	Vehicle speed sensor (VSS) – out of self-test range
P1502	Vehicle speed sensor (VSS) – signal malfunction
P1504	Idle air control (IAC) system – circuit malfunction
P1505	Idle air control (IAC) system
P1506	Idle air control (IAC) system – overspeed error
P1507	Idle air control (IAC) system – underspeed error
P1508	Idle air control (IAC) valve 1 – short/open circuit
P1509	Idle air control (IAC) valve 2 – short/open circuit
P1510	Idle air control (IAC) system – malfunction
P1511	Idle air control (IAC) system – malfunction
P1512	Intake manifold air control – stuck close
P1513	Intake Manifold Runner Control Stuck Closed Bank 2
P1516	Intake manifold air control solenoid (Tribute 2005-+) – input error
P1517	Intake Manifold Runner Control Input Error Bank 2
P1518	Intake manifold air control – stuck open
P1519	Intake manifold air control – stuck closed
P1520	Intake manifold air control -circuit malfunction
P1521	Intake manifold air control solenoid 1 – short/open circuit
P1522	Intake manifold air control solenoid 2 – short/open circuit
P1523	Intake manifold air control solenoid – circuit malfunction
P1524	Charge air cooler bypass solenoid valve – malfunction
P1525	Supercharger air control solenoid (vacuum) – short/open circuit
P1526	Supercharger air control solenoid (vent) – short/open circuit
P1527	Bypass air solenoid valve – short/open circuit
P1528	Idle air control (IAC) system – malfunction

P1529	UC atmospheric balance air control solenoid valve – malfunction
P1532	Intake Manifold Communication Control Circuit Bank 2
P1537	Intake manifold air control solenoid, bank 1 – solenoid stuck open
P1538	Intake manifold air control solenoid, bank 2 – solenoid stuck open
P1540	Supercharger air control solenoid -short/open circuit
P1541	Intake Manifold Runner Control Circuit Range/Performance
P1549	Intake manifold air control solenoid – control circuit malfunction
P1550	Power steering pressure (PSP) switch – malfunction
P1562	Engine control module (ECM) – battery voltage low
P1565	Cruise control system
P1566	Transmission control module (TCM) – battery voltage low
P1567	Cruise control system
P1568	Cruise control system
P1569	Intake manifold air control – circuit low
P1570	Intake manifold air control – circuit high
P1572	Brake pedal position (BPP) switch – circuit malfunction
P1573	Throttle position (TP) sensor – no signal
P1574	Throttle position (TP) sensor – signal correlation
P1600	Engine control module (ECM) – KAM error
P1601	ECM to AT communication – signal error
P1602	Immobilizer control module/engine control module (ECM) – communication error
P1603	Engine control module (ECM) – incorrect immobilizer code
P1604	Engine control module (ECM) – incorrect immobilizer code
P1605	Engine control module (ECM) -keep alive test error
P1608	Engine control module (ECM) -knock function malfunction

P1609	Engine control module (ECM) -supply voltage
P1621	Engine control module (ECM) – incorrect immobilizer code after cranking
P1622	Engine control module (ECM) – incorrect immobilizer key code
P1623	Engine control module (ECM) – immobilizer read/write error, EEPROM damaged
P1624	Engine control module (ECM) – immobilizer communication error
P1627	ECM to ABSfTCS communication – signal error
P1628	ECM to ABSfTCS communication – signal error
P1630	Generator voltage – circuit malfunction
P1631	Generator voltage – no charge
P1632	Battery voltage monitor – circuit malfunction
P1633	Battery voltage – overcharging
P1634	Generator terminal B – open circuit
P1635	Engine control module (ECM)- processor fault
P1636	Engine control module (ECM) – communication error
P1639	Engine control module (ECM) -keep alive test error
P1641	Fuel pump – circuit malfunction
P1643	CAN Link ECM/TCM Circuit Network
P1645	Fuel pump – circuit malfunction
P1650	Power steering pressure (PSP) switch – out of self-test range
P1651	Power steering pressure (PSP) switch – input malfunction
P1652	Power steering pressure (PSP) switch – circuit malfunction
P1656	CAN data bus – circuit malfunction
P1657	CAN data bus – malfunction
P1674	Engine control module (ECM) – malfunction
P1684	Metering Oil Pump Position Sensor Circuit Malfunction

P1686	Rotor lubrication oil pump – low oil flow – circuit malfunction
P1687	Rotor lubrication oil pump – high oil flow – circuit malfunction
P1688	Rotor lubrication oil pump – self-test. – circuit malfunction
P1700	Transmission system – malfunction
P1701	Transmission solenoid malfunction – reverse gear engagement error
P1702	Transmission range (TR) sensor- circuit malfunction
P1703	Brake pedal position (BPP) switch – torque converter – out of self-test range
P1704	Transmission range (TR) sensor- malfunction
P1705	Transmission range (TR) sensor- out of self-test range
P1708	Clutch pedal position (CPP) switch – malfunction
P1709	Park/neutral position switch (except B series Pickup)- out of self-test range
P1711	Transmission fluid temperature (TFT) sensor – out of self-test range
P1712	Prevent The Differential Journal From Burning Or Seizure
P1713	Transmission fluid temperature (TFT) sensor- performance
P1714	AT- shift solenoid 1 -mechanical failure
P1715	AT – shift solenoid 2 – mechanical failure
P1716	AT – shift solenoid 3 – mechanical failure
P1717	AT – shift solenoid 4 – mechanical failure
P1718	Transmission fluid temperature (TFT) sensor- performance
P1719	Overdrive system – loss of signal
P1720	Vehicle speed sensor (VSS) – no signal
P1721	Shift solenoid (SS) 1 – malfunction
P1722	Shift solenoid (SS) 2- malfunction
P1723	Shift solenoid (SS) 3- malfunction
P1724	Shift solenoid (SS) 4 – malfunction

P1729	4×4 low range switch – switch error
P1735	Gear selection, 1-2- shift malfunction
P1736	Gear selection, 2-3 – shift malfunction
P1737	Torque converter clutch (TCC) solenoid valve – malfunction
P1738	Shift time error
P1740	Torque converter clutch (TCC) control – malfunction
P1741	Torque converter clutch (TCC) control – malfunction
P1742	Torque converter clutch (TCC) solenoid valve – malfunction
P1743	Torque converter clutch (TCC) solenoid valve – malfunction
P1744	Torque converter clutch (TCC) system – malfunction
P1745	AT- electronic pressure control solenoid – circuit malfunction
P1746	AT- electronic pressure control solenoid – low input
P1747	AT – electronic pressure control solenoid – high input
P1748	AT – electronic pressure control solenoid – malfunction
P1749	AT – electronic pressure control solenoid system
P1751	AT – shift solenoid 1 – open circuit
P1752	AT – shift solenoid 1 – circuit malfunction
P1753	AT – shift solenoid 1 – short circuit
P1754	AT- freewheeling clutch solenoid- circuit malfunction
P1756	AT – shift solenoid 2- open circuit
P1757	AT- shift solenoid 2- short circuit
P1760	AT – electronic pressure control solenoid – short to ground
P1761	AT – shift solenoid 3 – performance
P1762	Transmission – band failure
P1765	AT – gear 3-2 timing solenoid – malfunction
P1766	Shift Solenoid 'D' Performance
P1767	AT – torque converter clutch (TCC) solenoid- circuit malfunction
P1770	AT – overrun clutch solenoid valve – malfunction
P1771	AT – throttle position (TP) sensor – open circuit

P1772	AT – throttle position (TP) sensor- short circuit
P1775	AT – torque reduction signal 1 – signal problem
P1776	AT – torque reduction signal 2 – signal problem
P1777	AT – torque reduction signal (water temperature signal) – malfunction
P1780	Transmission control switch – out of self-test range
P1781	4×4 low range switch – out of self-test range
P1783	Transmission – over temperature condition
P1788	AT – 3-2 timing/coasting clutch solenoid – open circuit during self-test
P1789	AT- 3-2 timing/coasting clutch solenoid- short circuit during self-test
P1790	Throttle position (TP) sensor – malfunction
P1791	Throttle position (TP) sensor – circuit malfunction
P1792	Barometric pressure (BARO) sensor- circuit malfunction
P1793	Mass air flow (MAF) sensor/intake air temperature (IAT) sensor- circuit malfunction
P1794	Engine control module (ECM) – battery voltage low
P1795	Closed throttle position (CTP) switch – malfunction
P1797	Park/neutral position (PNP) switch/clutch pedal position (CPP) switch
P1798	Engine coolant temperature (ECT) sensor _ : circuit intermittent
P1799	Torque converter clutch (TCC) solenoid valve – malfunction
P1824	Four wheel drive clutch relay – circuit malfunction
P1825	Four wheel drive clutch relay – open circuit
P1879	Four wheel drive hub lock solenoid – open circuit
P1900	Turbine shaft speed (TSS) sensor- intermittent
P1901	Turbine shaft speed (TSS) sensor- intermittent
P1919	Engine Coolant Temperature Signal
P1922	Fuel Additive Level Circuit Malfunction

P1924	Fuel Additive Level Circuit Low
P1925	Fuel Additive Level Circuit High
P1926	Fuel Additive Level Circuit Range/Performance
P1928	Fuel Additive Level Pump Control Circuit/Open
P1929	Fuel Additive Level Pump Control Circuit Performance
P1930	Fuel Additive Level Too Low/Empty
P1931	Fuel Additive Pump Control Circuit/Open
P1932	Fuel Additive Pump Control Circuit Performance
P1933	Fuel Additive Pump Control Circuit Low
P1934	Fuel Additive Pump Control Circuit High
P1935	Fuel Additive Level Low
P1936	Clutch Switch/Sensor Signal
P1937	Vehicle Speed Signal
P1938	Brake Switch/Sensor Signal
P1939	Clutch Switch/Sensor Signal
U1020	CAN data bus – AJC clutch _signal malfunction
U1039	CAN data bus – VSS signal malfunction
U1041	CAN data bus – VSS signal malfunction
U1051	CAN data bus – brake signal malfunction
U1131	CAN data bus -fuel system signal malfunction
U1147	CAN data bus – vehicle security signal malfunction
U1262	CAN data bus – circuit malfunction
U1451	CAN data bus – alarm system control module signal malfunction
U1900	CAN data bus – malfunction
U2064	Warning Indicator Requested by Another Control Module
U2243	CAN data bus – external environment signal malfunction



# Questions? Contact us.



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